Training Course on Advanced Carbon Accounting and Reporting

Professional Development Training Course Outline

Category	CEOs and Directors	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Training Course on Advanced Carbon Accounting and Reporting provides professionals with the essential knowledge and practical skills to accurately quantify, verify, and strategically manage **greenhouse gas (GHG) emissions**. In today's rapidly evolving global landscape, marked by increasing **climate regulations**, investor scrutiny, and consumer demand for **corporate sustainability**, mastering carbon accounting is no longer optional but a critical imperative for **future-proofing businesses** and achieving **net-zero targets**. Participants will gain deep expertise in international **reporting frameworks** like the GHG Protocol, CDP, and TCFD, empowering them to drive **decarbonization strategies** and build a resilient, **low-carbon economy**.

As organizations worldwide face mounting pressure to demonstrate their commitment to **environmental stewardship** and mitigate **climate risks**, the ability to perform robust **carbon footprint analysis** and transparently report **ESG data** is paramount. This course goes beyond foundational concepts, delving into advanced methodologies for **Scope 1, 2, and 3 emissions** measurement, **carbon reduction planning**, and the strategic integration of **climate action** into core business operations. Through real-world **case studies** and practical exercises, participants will develop the confidence to navigate complex **sustainability reporting** requirements, identify **cost-saving opportunities** through energy efficiency, and enhance their organization's **brand reputation** as a leader in **climate innovation**.

Programme Curriculum

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Course Objectives

1. Deeply understand and apply the Greenhouse Gas Protocol Corporate Standard for comprehensive **emissions quantification**.
2. Accurately measure and report complex **Scope 3 emissions** across the entire **value chain**, including **supply chain decarbonization**.
3. Effectively integrate **Task Force on Climate-related Financial Disclosures (TCFD)** recommendations into corporate reporting for enhanced **climate risk disclosure**.
4. Develop and implement science-based **net-zero pathways** and **carbon reduction plans** aligned with global climate goals.
5. Gain proficiency in utilizing **carbon accounting software** and **ESG platforms** for streamlined data management and reporting.
6. Stay abreast of evolving **climate regulations** and **mandatory reporting** requirements, including CSRD and SEC climate disclosure rules.
7. Apply **Life Cycle Assessment** principles to products and services for holistic environmental impact evaluation.
8. Critically assess the integrity and effectiveness of **carbon offsetting** strategies and **carbon credit markets**.
9. Understand and implement **internal carbon pricing mechanisms** to drive emission reductions and inform investment decisions.
10. Master effective **sustainability communication** and **ESG reporting** strategies to engage stakeholders and build trust.
11. Uncover **green economy opportunities** and **sustainable innovation** through advanced carbon data analysis.
12. Develop robust data verification and reporting practices to avoid **greenwashing allegations** and ensure credible disclosures.
13. Embed **climate action** and **decarbonization initiatives** into overall corporate strategy for long-term **business resilience**.

Organizational Benefits

- Proactively meet and exceed evolving **climate disclosure** and **environmental regulations**, mitigating legal and financial risks.

- Identify and implement **energy efficiency** measures, waste reduction strategies, and **resource optimization** leading to substantial operational cost reductions.
- Demonstrate genuine commitment to **corporate social responsibility (CSR)** and **environmental stewardship**, enhancing public perception and attracting **ESG-conscious investors**.
- Provide transparent and credible **ESG data**, leading to better access to capital, lower financing costs, and a stronger position in the **sustainable finance** market.
- Differentiate from competitors by showcasing leadership in **sustainability performance** and achieving **carbon neutrality** goals.
- Proactively identify and manage **climate-related risks** (physical and transitional), ensuring **business continuity** and adaptability.
- Collaborate with suppliers to reduce **Scope 3 emissions**, fostering a more resilient and sustainable **supply chain network**.
- Appeal to a growing workforce that prioritizes working for environmentally responsible organizations, improving employee morale and retention.
- Drive **sustainable innovation**, leading to the development of new green products, services, and market opportunities.
- Gain actionable insights from **carbon data** to inform strategic planning, investment decisions, and **decarbonization pathways**.

Target Audience

1. Sustainability Managers & Directors
2. Environmental Health & Safety (EHS) Specialists
3. Financial Analysts & Investors
4. Corporate Social Responsibility (CSR) Professionals.
5. Supply Chain Managers
6. Consultants (Environmental, ESG, Management).
7. Compliance Officers.
8. Business Leaders & Decision-Makers.

Course Outline

Module 1: Foundations of Advanced Carbon Accounting

- Deep Dive into Climate Science
- Refresher: GHG Protocol Standards.
- International Reporting Landscape.
- Data Quality and Integrity.
- Setting Organizational Boundaries
- **Case Study:** Analyzing a multinational corporation's initial GHG inventory boundary setting challenges.

Module 2: Advanced Scope 1 & 2 Emissions Measurement & Reporting

- Refining Scope 1 Calculations
- Complexities of Scope 2
- Renewable Energy Accounting
- Emission Factors and Data Gaps
- Verification and Assurance
- **Case Study:** A manufacturing company optimizing its Scope 1 and 2 reporting through improved data collection and energy efficiency projects.

Module 3: Unpacking Scope 3 Emissions: Categories and Methodologies

- Understanding the 15 Categories.
- Prioritization and Materiality.
- Data Collection Strategies for Scope 3
- Challenges in Scope 3 Measurement
- Developing Scope 3 Baselines
- **Case Study:** A retail giant struggling with and ultimately succeeding in collecting comprehensive Scope 3 data from its global supply chain.

Module 4: Strategic Carbon Reduction Planning & Target Setting

- Science-Based Targets Initiative (SBTi).
- Net-Zero Pathways.
- Marginal Abatement Cost Curves (MACCs)
- Carbon Budgeting and Forecasting
- Integration with Business Strategy.
- **Case Study:** A technology company developing and validating its **SBTi-aligned net-zero target** and associated implementation plan.

Module 5: Carbon Management Tools & Technologies

- Overview of Carbon Accounting Software
- Data Integration and Automation
- Carbon Footprint Calculators
- Blockchain for Carbon Tracking
- Predictive Analytics for Emissions.
- **Case Study:** A logistics company implementing an **AI-powered carbon management platform** to optimize routes and reduce fuel consumption.

Module 6: Climate Risk Assessment & TCFD Reporting

- Understanding Climate Risks & Opportunities: Physical risks (e.g., extreme weather) and transitional risks (e.g., policy changes, market shifts).
- TCFD Framework Deep Dive
- Scenario Analysis for Climate Risks
- Integrating Climate Risk into ERM.
- Financial Implications of Climate Change
- **Case Study:** A financial institution performing a **TCFD-aligned climate risk assessment** and integrating findings into its investment strategy.

Module 7: Advanced Sustainability Reporting & Disclosure

- CSRD and European Reporting Standards
- SEC Climate Disclosure Rule
- Integrated Reporting.
- Global Reporting Initiative (GRI) Standards
- Building a Robust Reporting Process.
- **Case Study:** A publicly traded company preparing its inaugural **CSRD-compliant sustainability report**.

Module 8: Life Cycle Assessment (LCA) for Products & Services

- Introduction to LCA Principles

- Software and Databases for LCA
- Product Carbon Footprinting (PCF)
- Circular Economy & LCA
- Critical Review of LCA Studies.
- **Case Study:** A consumer goods company using LCA to redesign a product for a significantly lower **carbon footprint**.

Module 9: Carbon Offsetting and Carbon Markets

- Voluntary Carbon Markets vs. Compliance Markets
- Types of Carbon Credits
- Assessing Carbon Credit Quality
- Strategic Use of Offsets.
- Avoiding Greenwashing in Offsetting
- **Case Study:** An organization evaluating various carbon offset projects to achieve **carbon neutrality** while avoiding **greenwashing**.

Module 10: Internal Carbon Pricing and Incentive Mechanisms

- Rationale for Internal Carbon Pricing
- Types of Internal Carbon Prices.
- Implementation Strategies.
- Incentivizing Emission Reductions.
- Challenges and Success Factors
- **Case Study:** A large corporation successfully implementing an internal carbon fee to fund **energy efficiency** projects.

Module 11: Engaging Stakeholders and Communication

- Effective Stakeholder Engagement
- Narrative Building for Sustainability.
- Data Visualization for ESG
- Responding to Investor Inquiries.
- Crisis Communication and Greenwashing.
- **Case Study:** A company effectively communicating its **decarbonization journey** to investors, leading to increased share value.

Module 12: Supply Chain Decarbonization & Collaboration

- Scope 3 Hotspot Analysis.
- Supplier Engagement Strategies.
- Sustainable Procurement
- Circular Economy in Supply Chains
- Supply Chain Transparency and Traceability.
- **Case Study:** An automotive manufacturer partnering with its Tier 1 suppliers to reduce their collective **Scope 3 emissions**.

Module 13: Future Trends in Carbon Accounting & Climate Policy

- Emerging Regulations
- Digitalization of Carbon Accounting
- Natural Capital AccountingAdaptation and Resilience.
- Global Climate Governance.

- **Case Study:** A forward-thinking company proactively adapting its carbon accounting practices to align with anticipated future regulations.

Module 14: Practical Application and Case Studies Workshop

- Integrated Carbon Accounting Simulation.
- Problem-Solving Clinic.
- Peer Review and Feedback.
- Strategic Planning Exercise
- Q&A with Industry Experts.
- **Case Study:** A detailed, multi-faceted case study requiring participants to apply all learned concepts to develop a comprehensive **carbon action plan**.

Module 15: Certification and Continuous Improvement

- Preparing for Certification
- Continuous Improvement Cycle.
- Benchmarking and Performance Tracking
- Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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